

## Refine Search

### Search Results -

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**Database:**

US Pre-Grant Publication Full-Text Database  
US Patents Full-Text Database  
US OCR Full-Text Database  
EPO Abstracts Database  
JPO Abstracts Database  
Derwent World Patents Index  
IBM Technical Disclosure Bulletins

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L4

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### Search History

DATE: Friday, September 21, 2007   [Purge Queries](#)   [Printable Copy](#)   [Create Case](#)

<u>Set Name</u> side by side	<u>Query</u>	<u>Hit Count</u>	<u>Set Name</u> result set
<i>DB=PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD; PLUR=YES; OP=ADJ</i>			
<u>L4</u>	L3 and 562/\$	49	<u>L4</u>
<u>L3</u>	L2 and oxid\$9	196	<u>L3</u>
<u>L2</u>	L1 and terephthalic acid and xylene	206	<u>L2</u>
<u>L1</u>	oxygen and countercurrent	16042	<u>L1</u>

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☐ 1. Document ID: US 20060199975 A1

L4: Entry 1 of 49

File: PGPB

Sep 7, 2006

PGPUB-DOCUMENT-NUMBER: 20060199975

PGPUB-FILING-TYPE:

DOCUMENT-IDENTIFIER: US 20060199975 A1

TITLE: Process for preparing at least one organic target compound by heterogeneously catalyzed gas phase partial oxidation

PUBLICATION-DATE: September 7, 2006

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Dieterle; Martin	Mannheim		DE
Muller-Engel; Klaus Joachim	Stutensee		DE
Petzoldt; Jochen	Weisenheim am Berg		DE
Hammon; Ulrich	Mannheim		DE

US-CL-CURRENT: 562/546; 562/547

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw D
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☐ 2. Document ID: US 20050107630 A1

L4: Entry 2 of 49

File: PGPB

May 19, 2005

PGPUB-DOCUMENT-NUMBER: 20050107630

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20050107630 A1

TITLE: Staged countercurrent oxidation

PUBLICATION-DATE: May 19, 2005

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Belmonte, Frank G.	Hawthorn Woods	IL	US
Sikkenga, David L.	Wheaton	IL	US
Ogundiran, Olusola Sunday	League City	TX	US
Abrams, Kenneth J.	Naperville	IL	US

Leung, Linus Kai-Wah	Naperville	IL	US
Meller, Christopher G.	Carol Stream	IL	US
Figgins, Dale A.	Houston	TX	US
Mossman, Allen B.	Wheaton	IL	US

US-CL-CURRENT: 562/421

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMIC	Draw D
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☐ 3. Document ID: US 20040199006 A1

L4: Entry 3 of 49

File: PGPB

Oct 7, 2004

PGPUB-DOCUMENT-NUMBER: 20040199006  
PGPUB-FILING-TYPE: new  
DOCUMENT-IDENTIFIER: US 20040199006 A1

TITLE: Production of aromatic carboxylic acids

PUBLICATION-DATE: October 7, 2004

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Graham, Derek Alexander	Cleveland		GB
Hamley, Paul Anthony	Nottingham		GB
Oliver, Raymond	Stockton On Tees		GB
Poliakoff, Martyn	Nottingham		GB
Woodcock, Duncan C.	Cheshire		GB
Ilkenhans, Thomas	Cambridge		GB

US-CL-CURRENT: 562/412

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMIC	Draw D
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☐ 4. Document ID: US 20030176715 A1

L4: Entry 4 of 49

File: PGPB

Sep 18, 2003

PGPUB-DOCUMENT-NUMBER: 20030176715  
PGPUB-FILING-TYPE: new  
DOCUMENT-IDENTIFIER: US 20030176715 A1

TITLE: Method for the vapour-phase partial oxidation of aromatic hydrocarbons

PUBLICATION-DATE: September 18, 2003

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Reuter, Peter	Mannheim		DE

Ulrich, Bernhard                      Bockenheim                      DE  
Heidemann, Thomas                  Weinheim                      DE

US-CL-CURRENT: 549/248; 562/888

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMIC	Draw. De
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☐ 5. Document ID: US 20020028968 A1

L4: Entry 5 of 49

File: PGPB

Mar 7, 2002

PGPUB-DOCUMENT-NUMBER: 20020028968  
PGPUB-FILING-TYPE: new  
DOCUMENT-IDENTIFIER: US 20020028968 A1

TITLE: Production of aromatic carboxylic acids

PUBLICATION-DATE: March 7, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Graham, Derek Alexander	Cleveland		GB
Hamley, Paul Anthony	Nottingham		GB
Ilkenhans, Thomas	Cambridge		GB
Oliver, Raymond	Stockton on Tees		GB
Poliakoff, Martyn	Nottingham		GB
Woodcock, Duncan C.	Cheshire		GB

US-CL-CURRENT: 562/415

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMIC	Draw. De
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☐ 6. Document ID: US 7238833 B2

L4: Entry 6 of 49

File: USPT

Jul 3, 2007

US-PAT-NO: 7238833  
DOCUMENT-IDENTIFIER: US 7238833 B2

TITLE: Production of aromatic carboxylic acids

PRIOR-PUBLICATION:

DOC-ID	DATE
US 20040199006 A1	October 7, 2004

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMIC	Draw. De
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☐ 7. Document ID: US 6849581 B1

L4: Entry 7 of 49

File: USPT

Feb 1, 2005

US-PAT-NO: 6849581

DOCUMENT-IDENTIFIER: US 6849581 B1

TITLE: Gelled hydrocarbon compositions and methods for use thereof

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KMIC	Draw De
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☐ 8. Document ID: US 6765113 B2

L4: Entry 8 of 49

File: USPT

Jul 20, 2004

US-PAT-NO: 6765113

DOCUMENT-IDENTIFIER: US 6765113 B2

TITLE: Production of aromatic carboxylic acids

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KMIC	Draw De
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☐ 9. Document ID: US 6448436 B1

L4: Entry 9 of 49

File: USPT

Sep 10, 2002

US-PAT-NO: 6448436

DOCUMENT-IDENTIFIER: US 6448436 B1

TITLE: Integrated process for the production of 2, 6-naphthalene dicarboxylic acid

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KMIC	Draw De
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☐ 10. Document ID: US 6288273 B1

L4: Entry 10 of 49

File: USPT

Sep 11, 2001

US-PAT-NO: 6288273

DOCUMENT-IDENTIFIER: US 6288273 B1

TITLE: Method for producing shell catalysts for catalytic gas-phase oxidation of aromatic hydrocarbons

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KMIC	Draw De
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☐ 11. Document ID: US 6288270 B1

L4: Entry 11 of 49

File: USPT

Sep 11, 2001

US-PAT-NO: 6288270

DOCUMENT-IDENTIFIER: US 6288270 B1

TITLE: Methods for controlling the reaction rate of a hydrocarbon to an acid by making phase-related adjustments

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWIC	Draw D
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☐ 12. Document ID: US 6183698 B1

L4: Entry 12 of 49

File: USPT

Feb 6, 2001

US-PAT-NO: 6183698

DOCUMENT-IDENTIFIER: US 6183698 B1

**\*\* See image for Certificate of Correction \*\***

TITLE: Devices for controlling the reaction rate of a hydrocarbon to an intermediate oxidation product by pressure drop adjustments

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWIC	Draw D
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☐ 13. Document ID: US 6143927 A

L4: Entry 13 of 49

File: USPT

Nov 7, 2000

US-PAT-NO: 6143927

DOCUMENT-IDENTIFIER: US 6143927 A

TITLE: Methods for removing catalyst after oxidation of hydrocarbons

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWIC	Draw D
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☐ 14. Document ID: US 6137001 A

L4: Entry 14 of 49

File: USPT

Oct 24, 2000

US-PAT-NO: 6137001

DOCUMENT-IDENTIFIER: US 6137001 A

TITLE: Process for preparing aromatic carboxylic acids with efficient treatments of gaseous effluent

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWIC	Draw D
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☐ 15. Document ID: US 6037491 A

L4: Entry 15 of 49

File: USPT

Mar 14, 2000

US-PAT-NO: 6037491

DOCUMENT-IDENTIFIER: US 6037491 A

\*\* See image for Certificate of Correction \*\*

TITLE: Methods and devices for controlling hydrocarbon oxidations to respective acids by adjusting the solvent to hydrocarbon ratio

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWIC	Draw D
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☐ 16. Document ID: US 5998572 A

L4: Entry 16 of 49

File: USPT

Dec 7, 1999

US-PAT-NO: 5998572

DOCUMENT-IDENTIFIER: US 5998572 A

TITLE: Methods and devices for controlling the oxidation of a hydrocarbon to an acid by regulating temperature/conversion relationship in multi-stage arrangements

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWIC	Draw D
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☐ 17. Document ID: US 5980801 A

L4: Entry 17 of 49

File: USPT

Nov 9, 1999

US-PAT-NO: 5980801

DOCUMENT-IDENTIFIER: US 5980801 A

TITLE: Methods of preparing an intermediate oxidation product from a hydrocarbon by utilizing an activated initiator

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWIC	Draw D
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☐ 18. Document ID: US 5961942 A

L4: Entry 18 of 49

File: USPT

Oct 5, 1999

US-PAT-NO: 5961942

DOCUMENT-IDENTIFIER: US 5961942 A

TITLE: Effluent gas treatment



Full	Title	Citation	Front	Review	Classification	Date	Reference	Abstracts	Abstracts	Claims	KMIC	Draw. De
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☐ 19. Document ID: US 5939582 A

L4: Entry 19 of 49

File: USPT

Aug 17, 1999

US-PAT-NO: 5939582

DOCUMENT-IDENTIFIER: US 5939582 A

TITLE: Reaction control by regulating internal condensation inside a reactor

Full	Title	Citation	Front	Review	Classification	Date	Reference	Abstracts	Abstracts	Claims	KMIC	Draw. De
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☐ 20. Document ID: US 5891410 A

L4: Entry 20 of 49

File: USPT

Apr 6, 1999

US-PAT-NO: 5891410

DOCUMENT-IDENTIFIER: US 5891410 A

TITLE: Process for the purification of an oxidation off gas

Full	Title	Citation	Front	Review	Classification	Date	Reference	Abstracts	Abstracts	Claims	KMIC	Draw. De
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☐ 21. Document ID: US 5883292 A

L4: Entry 21 of 49

File: USPT

Mar 16, 1999

US-PAT-NO: 5883292

DOCUMENT-IDENTIFIER: US 5883292 A

TITLE: Reaction control by regulating internal condensation inside a reactor

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KMIC	Draw D
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☐ 22. Document ID: US 5877341 A

L4: Entry 22 of 49

File: USPT

Mar 2, 1999

US-PAT-NO: 5877341

DOCUMENT-IDENTIFIER: US 5877341 A

TITLE: Methods and devices for controlling the reaction rate of a hydrocarbon to an intermediate oxidation product by pressure drop adjustments

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KMIC	Draw D
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☐ 23. Document ID: US 5824819 A

L4: Entry 23 of 49

File: USPT

Oct 20, 1998

US-PAT-NO: 5824819

DOCUMENT-IDENTIFIER: US 5824819 A

TITLE: Methods of preparing an intermediate oxidation product from a hydrocarbon by utilizing an activated initiator

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KMIC	Draw D
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☐ 24. Document ID: US 5817868 A

L4: Entry 24 of 49

File: USPT

Oct 6, 1998

US-PAT-NO: 5817868

DOCUMENT-IDENTIFIER: US 5817868 A

**\*\* See image for Certificate of Correction \*\***

TITLE: Method and devices for controlling the oxidation of a hydrocarbon to an acid by regulating temperature/conversion relationship in multi-stage arrangements

Full	Title	Citation	Front	Review	Classification	Date	Reference	Abstract	Claims	KMIC	Draw D
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☐ 25. Document ID: US 5801282 A

L4: Entry 25 of 49

File: USPT

Sep 1, 1998

US-PAT-NO: 5801282

DOCUMENT-IDENTIFIER: US 5801282 A

TITLE: Methods of making intermediate oxidation products by controlling pre-coalescing temperature and transient temperature difference in an atomized liquid

Full	Title	Citation	Front	Review	Classification	Date	Reference	Abstract	Claims	KMIC	Draw D
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☐ 26. Document ID: US 5801273 A

L4: Entry 26 of 49

File: USPT

Sep 1, 1998

US-PAT-NO: 5801273

DOCUMENT-IDENTIFIER: US 5801273 A

TITLE: Methods and devices for controlling the reaction rate of a hydrocarbon to an intermediate oxidation product by pressure drop adjustments

Full	Title	Citation	Front	Review	Classification	Date	Reference	Abstract	Claims	KMIC	Draw D
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☐ 27. Document ID: US 5705682 A

L4: Entry 27 of 49

File: USPT

Jan 6, 1998

US-PAT-NO: 5705682

DOCUMENT-IDENTIFIER: US 5705682 A

TITLE: Process for producing highly pure terephthalic acid

Full	Title	Citation	Front	Review	Classification	Date	Reference	Abstract	Claims	KMIC	Draw D
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☐ 28. Document ID: US 5679846 A

L4: Entry 28 of 49

File: USPT

Oct 21, 1997

US-PAT-NO: 5679846

DOCUMENT-IDENTIFIER: US 5679846 A

TITLE: Process for the production of terephthalic acid

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWIC	Draw D
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☐ 29. Document ID: US 5654475 A

L4: Entry 29 of 49

File: USPT

Aug 5, 1997

US-PAT-NO: 5654475

DOCUMENT-IDENTIFIER: US 5654475 A

TITLE: Methods of making intermediate oxidation products by controlling oxidation rates in an atomized liquid

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWIC	Draw D
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☐ 30. Document ID: US 5646331 A

L4: Entry 30 of 49

File: USPT

Jul 8, 1997

US-PAT-NO: 5646331

DOCUMENT-IDENTIFIER: US 5646331 A

TITLE: Process for working up residues from the raw ester distillation in the preparation of dimethyl terephthalate(DMT)

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWIC	Draw D
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☐ 31. Document ID: US 5614159 A

L4: Entry 31 of 49

File: USPT

Mar 25, 1997

US-PAT-NO: 5614159

DOCUMENT-IDENTIFIER: US 5614159 A

TITLE: Process for the purification of an oxidation off gas with energy recovery

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KMIC	Draw D
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☐ 32. Document ID: US 5583254 A

L4: Entry 32 of 49

File: USPT

Dec 10, 1996

US-PAT-NO: 5583254

DOCUMENT-IDENTIFIER: US 5583254 A

**\*\* See image for Certificate of Correction \*\***

TITLE: Process for the production of purified terephthalic acid

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KMIC	Draw D
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☐ 33. Document ID: US 5580531 A

L4: Entry 33 of 49

File: USPT

Dec 3, 1996

US-PAT-NO: 5580531

DOCUMENT-IDENTIFIER: US 5580531 A

TITLE: Devices for making reaction products by controlling transient conversion in an atomized liquid

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KMIC	Draw D
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☐ 34. Document ID: US 5563293 A

L4: Entry 34 of 49

File: USPT

Oct 8, 1996

US-PAT-NO: 5563293

DOCUMENT-IDENTIFIER: US 5563293 A

TITLE: Process for the production of terephthalic acid

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KMIC	Draw. De
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☐ 35. Document ID: US 5558842 A

L4: Entry 35 of 49

File: USPT

Sep 24, 1996

US-PAT-NO: 5558842

DOCUMENT-IDENTIFIER: US 5558842 A

TITLE: Devices for making reaction products by controlling pre-coalescing temperature and transient temperature difference in an atomized liquid

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KMIC	Draw. De
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☐ 36. Document ID: US 5557009 A

L4: Entry 36 of 49

File: USPT

Sep 17, 1996

US-PAT-NO: 5557009

DOCUMENT-IDENTIFIER: US 5557009 A

TITLE: Process for preparing an aqueous slurry of terephthalic acid

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KMIC	Draw. De
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☐ 37. Document ID: US 5527957 A

L4: Entry 37 of 49

File: USPT

Jun 18, 1996

US-PAT-NO: 5527957

DOCUMENT-IDENTIFIER: US 5527957 A

TITLE: Process for the production of terephthalic acid

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KMIC	Draw. De
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☐ 38. Document ID: US 5502245 A

L4: Entry 38 of 49

File: USPT

Mar 26, 1996

US-PAT-NO: 5502245

DOCUMENT-IDENTIFIER: US 5502245 A

TITLE: Methods of making intermediate oxidation products by controlling transient conversion in an atomized liquid

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KMIC	Draw. De
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☐ 39. Document ID: US 5338882 A

L4: Entry 39 of 49

File: USPT

Aug 16, 1994

US-PAT-NO: 5338882

DOCUMENT-IDENTIFIER: US 5338882 A

TITLE: Process for the production of DMT-intermediate product of specific purity and pure terephthalic acid

Full	Title	Citation	Front	Review	Classification	Date	Reference	Abstract	Claims	KMIC	Draw D
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☐ 40. Document ID: US 5286896 A

L4: Entry 40 of 49

File: USPT

Feb 15, 1994

US-PAT-NO: 5286896

DOCUMENT-IDENTIFIER: US 5286896 A

TITLE: Process for the production of DMT-intermediate product of specific purity

Full	Title	Citation	Front	Review	Classification	Date	Reference	Abstract	Claims	KMIC	Draw D
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☐ 41. Document ID: US 5200557 A

L4: Entry 41 of 49

File: USPT

Apr 6, 1993

US-PAT-NO: 5200557

DOCUMENT-IDENTIFIER: US 5200557 A

TITLE: Process for preparation of crude terephthalic acid suitable for reduction to prepare purified terephthalic acid

Full	Title	Citation	Front	Review	Classification	Date	Reference	Abstract	References	Claims	KMHC	Drawings
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☐ 42. Document ID: US 4956493 A

L4: Entry 42 of 49

File: USPT

Sep 11, 1990

US-PAT-NO: 4956493

DOCUMENT-IDENTIFIER: US 4956493 A

TITLE: Process for producing methacrylic ester

Full	Title	Citation	Front	Review	Classification	Date	Reference	Abstract	References	Claims	KMHC	Drawings
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☐ 43. Document ID: US 4675438 A

L4: Entry 43 of 49

File: USPT

Jun 23, 1987

US-PAT-NO: 4675438

DOCUMENT-IDENTIFIER: US 4675438 A

**\*\* See image for Certificate of Correction \*\***

TITLE: Direct continuous flow integration of production and purification of high purity iso- or terephthalic acid

Full	Title	Citation	Front	Review	Classification	Date	Reference	Abstract	References	Claims	KMHC	Drawings
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☐ 44. Document ID: US 4500732 A

L4: Entry 44 of 49

File: USPT

Feb 19, 1985

US-PAT-NO: 4500732

DOCUMENT-IDENTIFIER: US 4500732 A



TITLE: Process for removal and recycle of p-toluic acid from terephthalic acid  
crystallizer solvent

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KMIC	Draw. De
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☐ 45. Document ID: US 4357475 A

L4: Entry 45 of 49

File: USPT

Nov 2, 1982

US-PAT-NO: 4357475

DOCUMENT-IDENTIFIER: US 4357475 A

**\*\* See image for Certificate of Correction \*\***

TITLE: Process for the production and the recovery of terephthalic acid

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KMIC	Draw. De
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☐ 46. Document ID: US 4302595 A

L4: Entry 46 of 49

File: USPT

Nov 24, 1981

US-PAT-NO: 4302595

DOCUMENT-IDENTIFIER: US 4302595 A

TITLE: Process for the preparation of terephthalic acid by the hydrolysis of  
intermediate stage crude dimethyl terephthalate

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KMIC	Draw. De
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☐ 47. Document ID: US 4259522 A

L4: Entry 47 of 49

File: USPT

Mar 31, 1981

US-PAT-NO: 4259522

DOCUMENT-IDENTIFIER: US 4259522 A

TITLE: Process for the production of isophthalic acid

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KMIC	Draw. De
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☐ 48. Document ID: US 4201871 A

L4: Entry 48 of 49

File: USPT

May 6, 1980

US-PAT-NO: 4201871

DOCUMENT-IDENTIFIER: US 4201871 A

TITLE: Process for recovering terephthalic acid

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KMIC	Draw. De
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☐ 49. Document ID: US 4172209 A

L4: Entry 49 of 49

File: USPT

Oct 23, 1979

US-PAT-NO: 4172209

DOCUMENT-IDENTIFIER: US 4172209 A

TITLE: Process for producing dicarboxylic acids by the oxidation of xylene

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KMIC	Draw. De
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